			he
	Application No.	Applicant(s)	· •
	10/825,780	RUSS ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Tu-Tu Ho	2818	
The MAILING DATE of this communication a All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1.	IS (OR REMAINS) CLOSED 85) or other appropriate comi RIGHTS. This application is	in this application. If not included nunication will be mailed in due course.	
1. This communication is responsive to <u>Papers filed 04/15</u>	<u>5/2004</u> .		
2. ☑ The allowed claim(s) is/are <u>1-31</u> .			
3. $igotimes$ The drawings filed on $ extit{15 April 2004}$ are accepted by th	e Examiner.		
4. Acknowledgment is made of a claim for foreign priorit  a) All b) Some* c) None of the:  1. Certified copies of the priority documents h  2. Certified copies of the priority documents h  3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DA"	nave been received.  nave been received in Applica  documents have been received.  TE" of this communication to f	tion No red in this national stage application from	
noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be surprised in the INFORMAL PATENT APPLICATION (PTO-152) which	ubmitted. Note the attached E		OF
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets")			
(a) ☐ including changes required by the Notice of Drafts		ew ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		, ,	
(b) ☐ including changes required by the attached Examine Paper No./Mail Date		or in the Office action of	
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	FR 1.84(c)) should be written or in the header according to 37	the drawings in the front (not the back) of CFR 1.121(d).	
7. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREME	eposit of BIOLOGICAL MA	TERIAL must be submitted. Note the	
		·	
Attachment(s)			
1. Notice of References Cited (PTO-892)		Informal Patent Application (PTO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-9-	Paper N	Summary (PTO-413), o./Mail Date	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date 04/15/2004</li> </ol>	,. –	's Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Depo		's Statement of Reasons for Allowance	
of Biological Material	9. ☐ Other	<del></del> ·	
	David Nelms		
	ory Patent Examiner ology Center 2800		
ICOLU			

## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1-31 are allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or render obvious an electrostatic discharge (ESD) protection circuit in a semiconductor integrated circuit having a protected circuitry with all exclusive limitations as recited in claims 1 and 25, comprising an SCR for shunting ESD current away from the protected circuitry, the SCR comprising a substrate, an insulator layer formed over the substrate, an N-well and an adjacent P-well formed over the insulator layer and defining a PN junction, an anode region formed in the N-well and for coupling to a pad of the protected circuitry, a cathode region formed in the P-well and for coupling to ground, and at least one P+ trigger tap region and at least one N+ trigger tap region disposed in the P-well and the N-well respectively and spaced proximate to the cathode region and the anode region respectively and for triggering the SCR.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/825,780

Art Unit: 2818

Conclusion

Page 3

The prior art made of record and not relied upon is considered pertinent to applicant's 2.

disclosure. Copies of the references are not being furnished with this Office Action per MPEP

§ 707.05(a).

U.S. Patent 5,872,379 to Lee discloses a low voltage turn-on SCR for ESD protection

comprising an SCR trigger circuit having an N+/P-LDD junction.

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The

examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 31, 2005

Supervisory Patent Examiner

Technology Center 2800